

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1-10. (Cancelled)

11. (Currently Amended) A method for identifying compounds with anti-anxiety activity comprising:

(a) administering a test compound to an animal mouse that has comprising at least one native non-functional allele of the p53 gene, wherein the mouse exhibits increased anxiety, and

(b) determining whether said test compound decreases anxiety in said animal mouse, in which test compounds that decrease anxiety in said animal mouse are identified as compounds with anti-anxiety activity.

12. (Cancelled)

13. (Currently Amended) The method of claim 11, wherein the mouse has two native non-functional alleles of the p53 gene are not functional.

14. (Currently Amended) A method for identifying compounds with long-term memory restoring activity, comprising:

(a) administering a test compound to a mouse that is heterozygous for the p53 gene in that the mouse has one native heterozygous animal comprising a non-functional allele of the p53 gene, wherein the animal mouse exhibits a deficiency in long-term memory storage, and

(b) determining whether said test compound restores long-term memory in said animal, wherein test compounds that improve improves the deficiency in long-term memory storage in said mouse are identified as compounds with long-term memory restoring activity.

15. (Cancelled)

16. (Cancelled)

17. (Currently Amended) The method of claim 11, wherein determining whether said test compound decreases anxiety in said animal mouse comprises subjecting said animal mouse to an Open-Field test.

18. (Currently Amended) The method of claim 11, wherein determining whether said test compound decreases anxiety in said animal mouse comprises determining whether said test compound decreases thigmotaxis.

19. (Currently Amended) The method of claim 14, wherein determining whether said test compound restores improves the deficiency in long-term memory storage in said animal mouse comprises subjecting the animal mouse to a Morris swimming pool test.

20. (Currently Amended) The method of claim 14, wherein determining whether said test compound restores improves the deficiency in long-term memory storage in said animal mouse comprises calculating a spatial bias index.

21. (Cancelled)